

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371**

ATTORNEY DOCKET NUMBER  
DC10031PCT (71,051-070)

U.S. APPLICATION NO (If known, see 37 CFR 1.5)

INTERNATIONAL APPLICATION NO.

INTERNATIONAL FILING DATE

PRIORITY DATE CLAIMED

**PCT/JP2005/004413**

**08 March 2005 (08.05.2005)**

**17 March 2004 (17.03.2004)**

TITLE OF INVENTION:

**METAL BASE CIRCUIT SUBSTRATE FOR AN OPTICAL DEVICE AND METHOD MANUFACTURING  
THE AFOREMENTIONED SUBSTRATE**

APPLICATION(S) FOR DO/EO/US:

**Kazumi NAKAYOSHI, Katsutoshi MINE and Akihiko KOBAYASHI**

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.
  2. ☐ This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.
  3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include Items (5), (6), (9) and (21) indicated below.
  4. ☐ The US had been elected (Article 31).
  5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
    - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
    - b. ☐ has been communicated by the International Bureau.
    - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US)
  6. ☐ An English language translation of the International Application into English (35 U.S.C. 371(c)(2)).
    - a. ☐ is attached hereto.
    - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
  7. ☐ Amendment to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
    - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
    - b. ☐ have been communicated by the International Bureau.
    - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
    - d. ☐ have not been made and will not be made
  8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
  9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
  10. ☐ A English language translation of the annex to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c) (5)).
  11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
  12. ☒ A copy of the International Search Report (PCT/ISA/210).
- Items 13 to 23 below concern other document(s) or information included:**
13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
  14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included
  15. ☒ A FIRST preliminary amendment.
  16. ☒ An Application Data Sheet under 37 CFR 1.76.
  17. ☐ A substitute specification.
  18. ☐ A power of attorney and/or change of address letter.
  19. ☐ A computer-readable form of sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.
  20. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
  21. ☐ A second copy of the English Language translation of the international application under 35 U.S.C. 154(d)(4).
  22. ☐ Express Mail Label No. EV618892928
  23. ☐ Other items or information:

|  |                                     |  |  |   |           |
|--|-------------------------------------|--|--|---|-----------|
| U.S. APPLICATION NO. (If known see 37 C.F.R. 1.5)  |                                     | INTERNATIONAL APPLICATION NO.<br><b>PCT/JP2005/004413</b>  |  | ATTORNEY'S DOCKET NUMBER<br><b>DC10031PCT (71,051-070)</b>                    |           |
| The following fees are submitted   |                                     |  |  | <u>CALCULATIONS</u> <u>PTO USE</u><br><u>ONLY</u>                             |           |
| 21   | <input checked="" type="checkbox"/> | Basic national fee..... <b>\$300.00</b>  |  | <b>\$300.00</b>   |           |
| 22   | <input checked="" type="checkbox"/> | Examination Fee<br>If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)..... <b>\$0.00</b><br>All other situations..... <b>\$200.00</b>  |  | <b>\$200.00</b>   |           |
| 23   | <input checked="" type="checkbox"/> | Search fee<br>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority ..... <b>\$100.00</b><br>International Search Report prepared and provided to the Office ..... <b>\$400.00</b><br>All other situations ..... <b>\$500.00</b> |  | <b>\$400.00</b>   |           |
| <b>TOTAL OF 21, 22 AND 23 =</b>  |                                     |  |  | <b>\$900.00</b>   |           |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium).<br>The fee is <b>\$250</b> for each additional 50 sheets of paper or fraction thereof.   |                                     |  |  |   |           |
| Total Sheets   |                                     | Extra Sheets   |  | Number of each additional 50 or fraction thereof (round up to a whole number) |           |
| 11    -100+  |                                     | /50 =  |  | X <b>\$250</b>  |           |
|  |                                     |  |  | <b>\$0.00</b>   |           |
| Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).  |                                     |  |  | <b>\$0.00</b>   |           |
| CLAIMS   |                                     | NUMBER FILED   |  | NUMBER EXTRA  |           |
| Total claims   |                                     | 5 - 20 =   |  | X <b>\$ 50.00</b>   |           |
| Independent claims   |                                     | 2 - 3 =  |  | X <b>\$200.00</b>   |           |
| Multiple dependent claims(s) (if applicable)   |                                     |  |  | + <b>\$360.00</b>   |           |
| <b>TOTAL OF ABOVE CALCULATION =</b>  |                                     |  |  | <b>\$</b>   |           |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.   |                                     |  |  |   |           |
| <b>SUBTOTAL =</b>  |                                     |  |  | <b>\$</b>   |           |
| Processing fee of <b>\$130.00</b> for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).   |                                     |  |  | <b>\$</b>   |           |
| + <b>TOTAL NATIONAL FEE =</b>  |                                     |  |  | <b>\$</b>   |           |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). <b>\$40.00</b> per property  |                                     |  |  | <b>\$</b>   |           |
| <b>TOTAL FEES ENCLOSED =</b>   |                                     |  |  | <b>\$900.00</b>   |           |
|  |                                     |  |  | <b>Amount to be: refunded</b>   | <b>\$</b> |
|  |                                     |  |  | <b>Charged</b>  | <b>\$</b> |
| a. <input type="checkbox"/> A checks in the amount of \$ to cover the above fees is enclosed.<br>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>08-2789</u> in the amount of <u>\$900.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed.<br>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>08-2789</u> . A duplicate copy of this sheet is enclosed.<br>d. <input type="checkbox"/> Fees are to be charged t a credit card. <b>WARNING:</b> Information on this form may be become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.<br><b>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</b> |                                     |  |  |   |           |
| SEND ALL CORRESPONDENCE TO:<br><b>David M. LaPrairie</b><br><b>HOWARD &amp; HOWARD ATTORNEYS, P.C.</b><br><b>Suite 101</b><br><b>39400 Woodward Avenue</b><br><b>Bloomfield Hills, MI 48304-5151</b><br><b>(248) 645-1483</b><br><b>Customer No. 27305</b>   |                                     |  | <b>/David M. LaPrairie/</b><br>SIGNATURE<br><br>David M. LaPrairie _____<br>Name<br><br><u>46,295</u><br>REGISTRATION NUMBER |   |           |
|  |                                     |  | September 15, 2006<br>Date   |   |           |